

## Title (en)

Energy Meter with Power Quality Monitoring and Diagnostic Systems

## Title (de)

Energiemesser mit Leistungsqualitätsüberwachung und Diagnosesysteme

## Title (fr)

Compteur d'énergie et systèmes de contrôle et de diagnostic de la qualité de la puissance

## Publication

**EP 2088437 A1 20090812 (EN)**

## Application

**EP 08166392 A 19971016**

## Priority

- EP 97910922 A 19971016
- US 2898696 P 19961022

## Abstract (en)

An electronic meter which automatically detects the service type and voltage to which the meter is installed and which either automatically configures its own programming to the detected service is disclosed. An electronic energy meter that permits the addition of new measurements or testing capabilities without requiring factory modifications to effect such functionality changes is also disclosed. The meter includes firmware which measures the characteristics of electrical energy supplied to the meter and which generates characteristic signals reflective of the measured characteristics of the electrical energy. A processor is connected to receive and process the characteristic signals. The processing of the characteristic signals includes selecting and manipulating certain of the characteristic signals and generating characteristic information in response to the selection and generating additional characteristic information in response to the manipulation. It is preferred for the meter to include a memory having reference information stored therein. In such an embodiment, the manipulation of characteristic signals includes retrieving certain of the reference information and generating the characteristic information in response to the selected signals and the reference information.

## IPC 8 full level

**G01R 1/00** (2006.01); **G01R 19/25** (2006.01); **G01R 21/133** (2006.01); **G01R 22/00** (2006.01); **G06F 19/00** (2006.01)

## CPC (source: EP US)

**G01R 19/2513** (2013.01 - EP US); **G01R 21/133** (2013.01 - EP US); **G01R 22/00** (2013.01 - EP US)

## Citation (applicant)

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EP4019989A1; US11460493B2; US11899516B1

## Designated contracting state (EPC)

DE ES GB IE SE

## DOCDB simple family (publication)

**WO 9818013 A2 19980430; WO 9818013 A3 19980723;** AR 008894 A1 20000223; AR 026659 A1 20030219; AR 026659 A2 20030219; AR 026660 A1 20030219; AR 026660 A2 20030219; AR 026661 A1 20030219; AR 026661 A2 20030219; AR 026662 A1 20030219; AR 026662 A2 20030219; AU 4818397 A 19980515; AU 736045 B2 20010726; BR 9712557 A 19991228; CA 2269499 A1 19980430; CA 2269499 C 20060328; CN 1179212 C 20041208; CN 1234120 A 19991103; EP 1018022 A2 20000712; EP 1018022 A4 20001206; EP 2088437 A1 20090812; RO 120431 B1 20060130; US 6094622 A 20000725; US 6269316 B1 20010731; US 6374188 B1 20020416; US 6507794 B1 20030114; US 6577961 B1 20030610

## DOCDB simple family (application)

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